

Title (en)

A method for improving the amplitude-frequency characteristic of a radar system.

Title (de)

Verfahren zur Verbesserung der Amplitudenfrequenzcharakteristik eines Radarsystems.

Title (fr)

Procédé pour améliorer la caractéristique amplitude/fréquence dans un système radar.

Publication

EP 0461093 B1 19950517 (EN)

Application

EP 91850098 A 19910418

Priority

SE 9002064 A 19900608

Abstract (en)

[origin: EP0461093A1] A method of improving the amplitude-frequency characteristic when receiving a target echo (M) in a radar system installed on a satellite or an aircraft and carried at a given height (h) above the earth's surface. The method utilizes the known method of compressing a received pulse which contains a number of frequencies (f1-f2) in order to obtain improved dissolution of the target. According to the method, the receiving lobe of the radar is swept, independently of frequency, over a given larger angular area (THETA b - THETA a) within which the target (M) is located. Within the smaller angular area (DELTA THETA) occupied by the target as seen from the radar, i.e. the momentary width (DELTA w) of the target echo, however, the receiving lobe is controlled in dependence on the frequencies (f1-f2) so as to obtain a number of optimally located receiving lobes for the smaller angular area (DELTA THETA).

IPC 1-7

G01S 13/28

IPC 8 full level

G01S 13/06 (2006.01); **G01S 13/28** (2006.01)

CPC (source: EP US)

G01S 13/06 (2013.01 - EP US); **G01S 13/282** (2013.01 - EP US)

Designated contracting state (EPC)

CH DE FR GB LI NL

DOCDB simple family (publication)

EP 0461093 A1 19911211; **EP 0461093 B1 19950517**; DE 69109748 D1 19950622; DE 69109748 T2 19951012; SE 466367 B 19920203; SE 9002064 D0 19900608; SE 9002064 L 19911209; US 5142289 A 19920825

DOCDB simple family (application)

EP 91850098 A 19910418; DE 69109748 T 19910418; SE 9002064 A 19900608; US 69740691 A 19910509